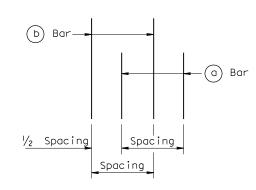


DETAIL A No Scale

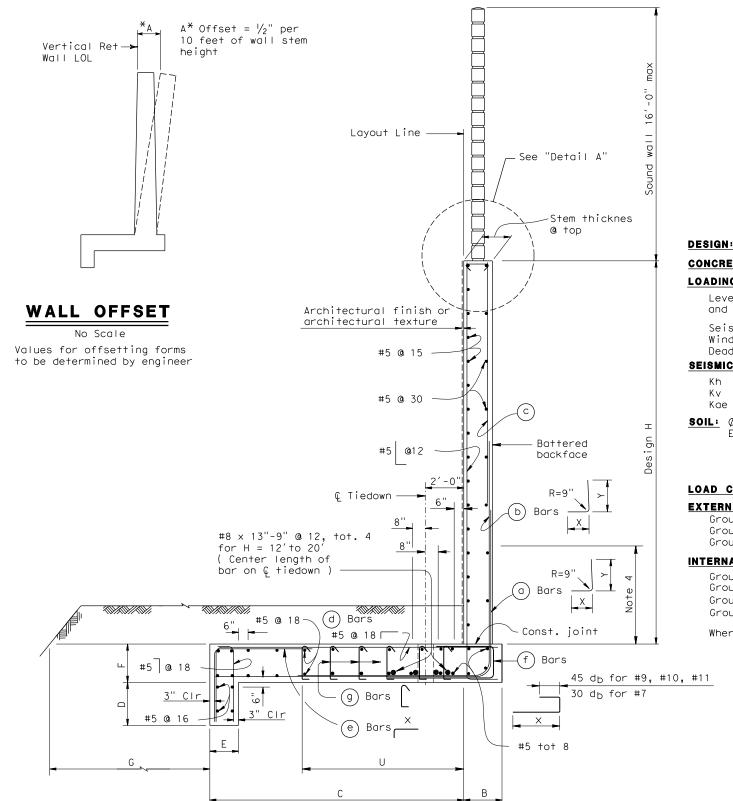


REBAR SPACING

No Scale

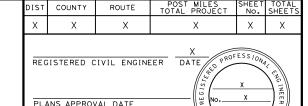
GENERAL NOTES

- 1. For soundwall and retaining wall architectural finish or texture, see details elsewhere in project plans.
- 2. For details not shown and drainage notes, see (B3-8)
- 3. Footing coverage, 2'-0" minimum.
- 4. Limit of no splicing rebars = H/3.
- 5. Increasing stem thickness not permitted.
- 6. Place footing key concrete against undisturbed material.
- 7. Shift @ bars, @ bars, and @ bars as required to clear formed hole for tiedown.
- 8. No reinforcements in footing key for H= 8' to H=12'.
- 9. Maximum distance from Q tiedown to edge of footing = 0.4(S).
- 10. For soundwall reinforcements, see "Soundwall Masonry Block" Sheets in Standard Plan.



SPREAD FOOTING SECTION

No Scale



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DESIGN DATA

DESIGN: Load Factor Design (LFD)

CONCRETE: Reinforced Concrete, f'c = 3600 psi fy = 60,000 psiLOADING CASE:

Level ground with 240 psf live load surcharge and 16 Soundwall

Seismic Load = 0.3 Dead Load Wind Load = 30 psfDead Load of Soundwall = 1414 lb/Lf

SEISMIC LOAD: SOIL

Kh = 0.3g= 0.0

Kae : Mononobe-Okabe Method

SOIL: $\emptyset = 34^{\circ}$ Y = 120 pcfEquivalent fluid pressure:

STATIC = 36 pcf for determination of toe pressure SEISMIC = Coulomb's Theory

LOAD COMBINATIONS:

EXTERNAL STABILITY:

D + E + SC + 0.75T (F.S. Sliding > 1.5) Group 1: Group 2: D + E + SC + W + 0.75T (F.S. Sliding > 1.2)Group 3: D + PYM + P_{av} + V + 1.0 T (F.S. Sliding > 1.0)

INTERNAL STABILITY: (LFD)

Group A: BD + 1.7 E + 1.7 SC + 0.75 T BD + 1.7 E + 1.3 W + 0.75 T Group B: 1.0 D + 1.0 E + 1.0 EQD + 1.0 EQE Group C :(Stem) Group C: (Footing) D + PYM + P_{ov} + V + 1.0 T

Where : β = 1.0 or 1.3 whichever controls design

= Dead Load

= Lateral Earth Pressure P_{av} = Vertical Earth Pressure SC = Live Load Surcharge

W = Wind Load

EQD = Seismic Dead Load

EQE = Seismic Lateral Earth Pressure

PYM = Probable Yield Moment

(1.3 x Nominal Yield Moment of Stem)

V = Possible Shear at Base of Stem

associated with Probable Yield Moment T = Design Force for Vertical Tiedown

| STANDARD DRAWING | | STATE OF | | BRIDGE NO. | NO | | | | | |
|---|---|------------------------------|-----------------------------------|----------------|-----------|---|----------------|--------|--|--|
| FILE xs14-380-1x | | CALIFORNIA | DIVISION OF ENGINEERING SERVICES | X POST MILE | ^ | | | | ###################################### | |
| APPROVAL DATE July 2011 | | DEPARTMENT OF TRANSPORTATION | ENGINEERING SERVICES | Х | RETAINING | G WALL TYPE 78 | W - DETA | ILS NO | .1 | |
| DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02- | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | UNIT: X PROJECT NUMBER & PHASE: X | CONTRACT | NO.: X | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES | SHEET | OF X | |

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